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File: JPAB

May 6, 1994

PUB-NO: JP406122527A  
DOCUMENT-IDENTIFIER: JP 06122527 A  
TITLE: PRODUCTION OF OPTICAL FIBER PREFORM

PUBN-DATE: May 6, 1994

## INVENTOR-INFORMATION:

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SUMITOMO ELECTRIC IND LTD

APPL-NO: JP04271617

APPL-DATE: October 9, 1992

US-CL-CURRENT: 65/414

INT-CL (IPC): C03B 37/018; C03B 19/14

## ABSTRACT:

PURPOSE: To obtain a single-mode optical fiber preform having a refractive index distribution free from the spreading at the skirt part and having excellent transmission characteristics by using an auxiliary burner placed between a burner for core and a burner for clad and blasting oxyhydrogen flame containing a fluorine-containing gas against the side face of a porous glass for core.

CONSTITUTION: In the deposition of glass soot for core synthesized by a burner for core and glass soot for clad synthesized by a burner for clad, an oxyhydrogen flame containing a fluorine-containing gas (e.g. CF<sub>4</sub>) is blasted against the side face of a porous glass for core through an auxiliary burner placed between the core burner and the clad burner to form a porous glass material on the side of the porous glass for core. For example, a burner 1 for core is supplied with SiCl<sub>4</sub>, GeCl<sub>4</sub>, H<sub>2</sub>, O<sub>2</sub> and Ar and a burner 2 for clad is supplied with SiCl<sub>4</sub>, H<sub>2</sub>, O<sub>2</sub> and Ar to synthesize a porous material 9 for core and a porous material 10 for clad. In the above process, H<sub>2</sub>, O<sub>2</sub>, Ar and CF<sub>4</sub> are supplied to an auxiliary burner 15. The obtained porous material is converted to a transparent glass.

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<u>Set Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L14</u>	L13 and fluorine\$5	90	<u>L14</u>
<u>L13</u>	L12 or l11 or l10 or l9 or l8	806	<u>L13</u>
<u>L12</u>	((65/530)!.CCLS.) )	84	<u>L12</u>
<u>L11</u>	((65/421)!.CCLS.) )	221	<u>L11</u>
<u>L10</u>	((65/413)!.CCLS.) )	198	<u>L10</u>
<u>L9</u>	((65/531 )!.CCLS.) )	73	<u>L9</u>
<u>L8</u>	((65/414 )!.CCLS. )	301	<u>L8</u>
<u>L7</u>	4810276.pn.	2	<u>L7</u>
<u>L6</u>	L2 same (first source)	11	<u>L6</u>
<u>L5</u>	L2 same (first jet)	0	<u>L5</u>
<u>L4</u>	L3 and l1	1	<u>L4</u>
<u>L3</u>	L2 same first nozzle	7	<u>L3</u>
<u>L2</u>	fluorine\$5	152806	<u>L2</u>
<u>L1</u>	((65/\$)!.CCLS.)	34553	<u>L1</u>

END OF SEARCH HISTORY